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**From:** Guria, Peter  
**Sent:** Fri 9/4/2015 2:38:30 PM  
**Subject:** R9 Lake Powell Surface Water and Sediment Data from 8/22/15 to Load  
[R09\\_SurfaceWater\\_Summary Table 09022015.xlsx](#)  
[R09\\_Sediment\\_Summary Table 09022015.xlsx](#)

**This data submission presents data for samples from Lake Powell only.**

#### Human Health Risk Screening Levels

The reported concentrations on metals in Lake Powell sediment were compared to the health-based screening levels for a 64-day recreational exposure developed by R8 for this incident. **All metals in Lake Powell sediment concentrations were below the recreational sediment screening levels.**

The reported dissolved and total concentrations on metals in surface water to the health-based screening levels for a 64-day recreational exposure developed by R8 for this incident; I also compared the dissolved metals concentrations to federal MCLs. **All metals concentrations (both dissolved and total) in Lake Powell surface water were below the recreational surface water screening levels and all dissolved metals concentrations met (were below) federal MCLs.**

#### Navajo Nation Agricultural & Livestock Screening Levels:

I also compared the reported dissolved and total concentrations on metals in surface water to current Agricultural and Livestock Watering screening levels developed by the Navajo Nation Water Quality Program. **All metals concentrations (both dissolved and total) in Lake Powell surface water were below applicable Navajo Nation Agricultural and Livestock water screening levels.**

#### Ecological risk Screening Levels

**Surface Water** samples exceeded the available ecological benchmarks (NRWQC) for the following metals/locations/dates (the criteria apply to dissolved concentrations; exceedances are reported for dissolved values only):

Dissolved Barium in all 8 Samples above the NRWQC Acute Screening Level. Those 8 sample locations are identified as: LP-19-B2, LP-19-MHY, LP-19-SRF, LP-19-THM, LP-21-B2, LP-21-MHY, LP-21-SRF, LP-21-THM. The descriptions provided for all of those comprise "Lake Powell."

**Sediments:** There were no instances of the sediments in these Lake Powell sampling stations exceeding the available benchmarks for ecological receptors.

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Peter Guria, Deputy Incident Commander

Gold King Mine Response

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